

PRODUCTION OF SILICONE BASED GRAFT COPOLYMER

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Abstract of JP60123518

PURPOSE: To obtain the titled copolymer having improved water, heat and weather resistance, etc., by copolymerizing an acrylic-modified silicone of a condensate of silicone of a specific formula with an acrylic compound radically with a radically polymerizable monomer.

CONSTITUTION: (A) A silicon expressed by formula I (R¹ and R² and 1-10C monofunctional aliphatic hydrocarbon, phenyl or halogenated hydrocarbon; n>=2) is reacted with (B) an acrylic compound expressed by formulas II and/or III [R³ is H or methyl; R⁴ is methyl, ethyl or phenyl; m is 0 or 1; l is an integer 0-2 when m is 0, l is 1 when m is 1; X is 1-10C alkoxyl, acetoxy or Cl], e.g. (meth)acrylate silane, in a solvent, e.g. diethyl ether, to give an acrylic-modified silicone. The resultant acrylic-modified silicone is then reacted with (B) a radically polymerizable monomer, e.g. ethylene, in the presence of a radical polymerization initiator, e.g. ammonium persulfate, generally at 50-100 deg.C for 3- 100hr to afford the aimed copolymer.

